

**CLAIMS**

We claim:

1. A low dielectric constant material comprising a plant oil and animal feathers.
2. The material as claimed in claim 1, wherein said plant oil is soybean oil and said animal feathers are fiber feathers.
3. The material as claimed in claim 1, wherein said oil is a triglyceride.
4. The material as claimed in claim 1, wherein said feathers are chicken feathers.
5. The material as claimed in claim 1, wherein said feathers are feather mats.
6. The material as claimed in claim 2, wherein said fibers are natural fibers.
7. A process to produce a low dielectric constant material which comprises mixing feathers and copolymerizing with a radically reactive monomer selected from the group consisting of styrene, methyl methacrylate, divinyl benzene and ethylene glycol dimethacrylate to form a rigid composite.
8. The process as claimed in claim 7, further comprising curing with a free radical initiator.
9. The process as claimed in claim 8, further comprising curing said with a free radical initiator with a metal promoter.
10. The process as claimed in claim 7, further comprising curing at an elevated temperature.